

Ro-416



# GETTLER-RYAN INC.

## TRANSMITTAL

Alameda County March 14, 2003  
G-R #386509  
APR 04 2003

Environmental Health

TO: Mr. Robert Foss  
Cambria Environmental Technology, Inc.  
2680 Bishop Drive, Suite 290  
San Ramon, CA 94583

CC: Ms. Karen Streifel  
Chevron Products Company  
P.O. Box 6004  
San Ramon, California 94583

FROM: Deanna L. Harding  
Project Coordinator  
Gettler-Ryan Inc.  
6747 Sierra Court, Suite J  
Dublin, California 94568

RE: Former Chevron Service Station  
#9-4930  
3369 Castro Valley Boulevard  
Castro Valley, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	March 10, 2003	Groundwater Monitoring and Sampling Report First Quarter - Event of February 5, 2003

COMMENTS:

Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to **March 28, 2003**, at which time the final report will be distributed to the following:

- cc: Mr. Amir Gholami, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Alameda, CA 94502
- Mr. Chuck Headlee, RWQCB - San Francisco Bay Region, 1515 Clay Street, Suite 1400, Oakland, CA 94612
- Ms. Anna Counelis and Tula Gallanes, 109 Casa Vieja, Orinda, CA 94563

Enclosures

trans/9-4930-ks



# GETTLER - RYAN Inc.

March 10, 2003  
G-R Job #386509

Ms. Karen Streich  
Chevron Products Company  
P.O. Box 6004  
San Ramon, CA 94583

**RE: First Quarter Event of February 5, 2003**  
Groundwater Monitoring & Sampling Report  
Former Chevron Service Station #9-4930  
3369 Castro Valley Boulevard  
Castro Valley, California

Dear Ms. Streich:

This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevations and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and laboratory analytical report are also attached.

Please call if you have any questions or comments regarding this report. Thank you.

Sincerely,

*Deanna L. Harding*

-FOR-

Deanna L. Harding  
Project Coordinator

*Robert C. Mallory*

Robert C. Mallory  
Registered Geologist, No. 7285

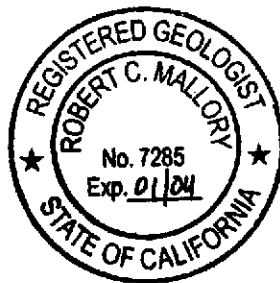
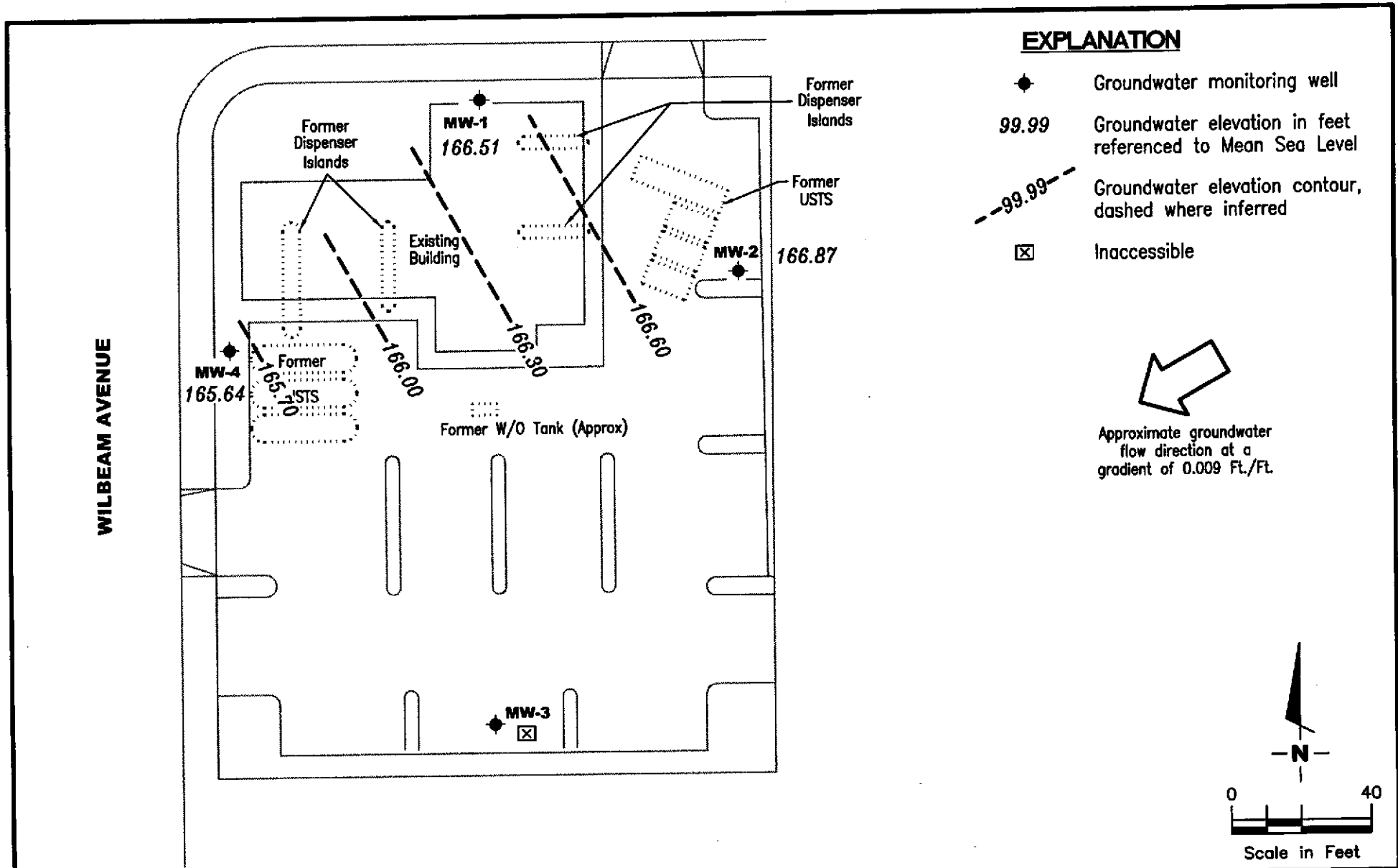


Figure 1: Potentiometric Map  
Table 1: Groundwater Monitoring Data and Analytical Results  
Table 2: Groundwater Analytical Results - Oxygenate Compounds  
Attachments: Standard Operating Procedure - Groundwater Sampling  
Field Data Sheets  
Chain of Custody Document and Laboratory Analytical Reports



Source: Figure modified from drawing provided by RRM engineering contracting firm.

**GETTLER - RYAN INC.**  
 6747 Sierra Ct., Suite J  
 Dublin, CA 94568 (925) 551-7555

**POTENTIOMETRIC MAP**  
 Former Chevron Station #9-4930  
 3369 Castro Valley Boulevard  
 Castro Valley, California

FIGURE

1

PROJECT NUMBER  
 386509

REVIEWED BY

DATE  
 February 5, 2003

REVISED DATE

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-4930  
3369 Castro Valley Boulevard  
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	1,2-DCE (ppb)	TCE (ppb)	DCFM (ppb)	PCE (ppb)
MW-1													
10/29/93	172.90	166.15	6.75	1,000	11	17	32	110	--	--	--	--	--
02/25/94	172.90	166.80	6.10	250	6.0	1.0	5.0	3.0	--	--	--	--	--
04/04/94	172.90	166.14	6.76	--	--	--	--	--	--	--	--	--	--
04/29/94	172.90	166.35	6.55	--	--	--	--	--	--	0.8	16	14	47
06/13/94	172.90	166.12	6.78	670	35	3.5	43	3.9	--	--	--	--	--
06/30/94	172.90	166.06	6.84	--	--	--	--	--	--	--	--	--	--
07/28/94	172.90	166.03	6.87	--	--	--	--	--	--	1.3	19	13	65
08/31/94	172.90	166.00	6.90	560	43	9.5	25	5.0	--	--	--	--	--
11/11/94	172.90	167.00	5.90	460	53	4.0	50	3.4	--	--	--	--	--
02/01/95	172.90	166.88	6.02	240	25	0.6	4.0	<0.5	--	--	--	--	--
05/18/95	172.90	166.82	6.08	580	42	1.0	53	2.6	--	--	--	--	--
08/22/95	172.90	166.52	6.38	840	73	1.2	110	1.6	--	--	--	--	--
11/01/95	172.90	166.40	6.50	350	36	<0.5	30	<0.5	15	--	--	--	--
01/26/96	172.90	166.85	6.05	210	23	<0.5	12	<0.5	4.7	--	--	--	--
05/08/96	172.90	166.50	6.40	310	42	2.3	56	1.1	52	--	--	--	--
10/03/96	173.53	166.61	6.92	240	31	<0.5	1.7	<0.5	18	--	--	--	--
02/04/97	173.53	167.02	6.51	200	9.9	<0.5	3.7	<0.5	16	--	--	--	--
04/30/97	173.53	166.64	6.89	260	11	<0.5	17	<0.5	13	--	--	--	--
07/22/97	173.53	166.49	7.04	170	5.0	<0.5	<0.5	<0.5	<2.5	--	--	--	--
11/03/97	173.53	166.55	6.98	230	13	<0.5	7.8	0.68	--	--	--	--	--
02/11/98	173.53	167.52	6.01	110	3.1	0.63	<0.5	<0.5	<2.5	--	--	--	--
05/08/98	173.53	166.72	6.81	170	4.2	1.8	2.1	<0.5	<2.5	--	--	--	--
08/07/98	173.53	167.01	6.52	110	5.2	<0.5	6.7	<0.5	13	--	--	--	--
11/05/98	173.53	166.58	6.95	160	1.8	<0.5	<0.5	0.53	<2.5	--	--	--	--
03/02/99	173.53	166.97	6.56	119	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
05/17/99	173.53	166.89	6.64	153	3.17	<0.5	0.791	<0.5	<5.0	--	--	--	--
08/24/99	173.53	166.40	7.13	96.2	1.38	<0.5	<0.5	<0.5	14.7	--	--	--	--
11/19/99	173.53	166.92	6.61	209	13.1	1.68	12.3	<0.5	3.79	--	--	--	--
02/03/00	173.53	168.30	5.23	95	1.4	<0.5	<0.5	<0.5	15	--	--	--	--
05/03/00	173.53	166.52	7.01	120 <sup>2</sup>	0.92	<0.50	<0.50	<0.50	12	--	--	--	--
07/28/00	173.53	166.45	7.08	100 <sup>2</sup>	<0.50	<0.50	<0.50	<0.50	21	--	--	--	--
11/13/00	173.53	169.41	4.12	73.0 <sup>3</sup>	1.14	<0.500	<0.500	<0.500	27.0	--	--	--	--
02/15/01	173.53	166.86	6.67	148 <sup>4</sup>	2.34	<0.500	<0.500	<0.500	<2.50	--	--	--	--

As of 02/05/03

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-4930  
3369 Castro Valley Boulevard  
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	1,2-DCE (ppb)	TCE (ppb)	DCFM (ppb)	PCE (ppb)
<b>MW-1 (cont)</b>													
05/31/01	173.53	166.48	7.05	97 <sup>2</sup>	1.5	<0.50	<0.50	<0.50	3.0/2.1 <sup>5</sup>	--	--	--	--
08/30/01 <sup>6</sup>	173.53	166.21	7.32	410	4.8	<0.50	1.4	<0.50	--/ <5.0 <sup>5</sup>	--	--	--	--
11/29/01	173.53	166.78	6.75	180	5.7	<0.50	2.3	<1.5	<2.5	--	--	--	--
02/05/02	173.53	166.73	6.80	120	1.9	<0.50	<0.50	<1.5	<2.5	--	--	--	--
05/16/02 <sup>7</sup>	173.53	166.43	7.10	120	1.00	<0.50	<0.50	<1.5	2.9	--	41	<2	300
08/15/02	173.53	166.42	7.11	110	1.7	<0.50	<0.50	<1.5	<2.5	--	--	--	--
11/05/02	173.53	166.20	7.33	130	1.9	<0.50	<0.50	<1.5	<5.0	--	--	--	--
02/05/03	173.53	166.51	7.02	120	1.5	<0.50	<0.50	<1.5	<10	--	--	--	--
<b>MW-2</b>													
10/29/93	173.91	166.05	7.86	5,600	140	3.2	17	330	--	--	--	--	--
02/25/94	173.91	166.96	6.95	820	41	<0.5	17	5.0	--	--	--	--	--
04/04/94	173.91	166.18	7.73	--	--	--	--	--	--	--	--	--	--
04/29/94	173.91	166.23	7.68	--	--	--	--	--	--	--	--	--	--
06/13/94	173.91	166.20	7.71	1,100	160	0.8	64	2.0	--	<0.5	0.9	<0.5	2.0
06/30/94	173.91	165.87	8.04	--	--	--	--	--	--	--	--	--	--
07/28/94	173.91	165.99	7.92	--	--	--	--	--	--	--	--	--	--
08/31/94	173.91	165.98	7.93	190	7.1	4.1	3.1	1.2	--	<0.5	1.1	<0.5	4.5
11/11/94	173.91	167.08	6.83	440	120	<1.0	18	<1.0	--	--	--	--	--
02/01/95	173.91	167.77	6.14	240	81	<1.0	<1.0	<1.0	--	--	--	--	--
05/18/95	173.91	166.91	7.00	330	74	<0.5	26	1.3	--	--	--	--	--
08/22/95	173.91	166.58	7.33	390	84	<1.0	2.1	<1.0	--	--	--	--	--
11/01/95	173.91	166.54	7.37	190	46	<0.5	1.6	<0.5	<2.5	--	--	--	--
01/26/96	173.91	168.13	5.78	<50	13	<0.5	<0.5	<0.5	<2.5	--	--	--	--
05/08/96	173.91	166.76	7.15	<50	4.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
10/03/96	172.67	166.66	6.01	63	4.3	<0.5	<0.5	<0.5	<2.5	--	--	--	--
02/04/97	172.67	167.40	5.27	<50	1.6	<0.5	<0.5	<0.5	<2.5	--	--	--	--
04/30/97	172.67	166.74	5.93	<50	5.4	<0.5	0.8	<0.5	<2.5	--	--	--	--
07/22/97	172.67	166.53	6.14	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
11/03/97	172.67	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
02/11/98	172.67	167.95	4.72	<50	0.52	0.63	<0.5	<0.5	<2.5	--	--	--	--
05/08/98	172.67	167.07	5.60	<50	1.1	1.2	<0.5	<0.5	<2.5	--	--	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-4930  
3369 Castro Valley Boulevard  
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	1,2-DCE (ppb)	TCE (ppb)	DCFM (ppb)	PCE (ppb)	
<b>MW-2 (cont)</b>														
08/07/98	172.67	166.33	6.34	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	
11/05/98	172.67	166.59	6.08	120	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	
03/02/99	172.67	167.41	5.26	67	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	
05/17/99	172.67	167.71	4.96	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	
08/24/99	172.67	165.33	7.34	<50	1.18	<0.5	<0.5	<0.5	<2.5	--	--	--	--	
11/19/99	172.67	166.84	5.83	<50	4.29	0.907	<0.5	<0.5	<2.5	--	--	--	--	
02/03/00	172.67	167.24	5.43	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	
05/03/00	172.67	166.81	5.86	100 <sup>2</sup>	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	
07/28/00	172.67	166.76	5.91	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--	
11/13/00	172.67	166.69	5.98	82.8 <sup>3</sup>	0.825	<0.500	<0.500	<0.500	25.0	--	--	--	--	
02/15/01	172.67	167.25	5.42	161 <sup>4</sup>	0.808	<0.500	<0.500	<0.500	30.3	--	--	--	--	
05/31/01	172.67	166.91	5.76	120 <sup>2</sup>	3.0	<0.50	<0.50	<0.50	29/26 <sup>5</sup>	--	--	--	--	
08/30/01 <sup>6</sup>	172.67	166.55	6.12	450	2.2	<0.50	<0.50	<0.50	-/27 <sup>5</sup>	--	--	--	--	
11/29/01	172.67	167.29	5.38	250	1.3	<0.50	<0.50	<1.5	17	--	--	--	--	
02/05/02	172.67	166.97	5.70	190	1.3	<0.50	<0.50	<1.5	7.5	--	--	--	--	
05/16/02 <sup>8</sup>	172.67	166.63	6.04	230	0.87	<0.50	<0.50	<1.5	5.3	--	35	<2	640	
08/15/02	172.67	166.73	5.94	200	2.7	<0.50	<0.50	<1.5	3.3	--	--	--	--	
11/05/02	172.67	166.42	6.25	340	<0.50	<0.50	<0.50	<1.5	2.7	--	--	--	--	
02/05/03	172.67	166.87	5.80	250	3.1	<0.50	<0.50	<1.5	<2.5	--	--	--	--	
<b>MW-3</b>														
10/29/93	172.60	164.96	7.64	110	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
02/25/94	172.60	166.22	6.38	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
04/04/94	172.60	165.21	7.39	--	--	--	--	--	--	--	--	--	--	
04/29/94	172.60	165.62	6.98	--	--	--	--	--	--	--	--	--	--	
06/13/94	172.60	165.15	7.45	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	2.0	<0.5	220	
06/30/94	172.60	165.05	7.55	--	--	--	--	--	--	--	--	--	--	
07/28/94	172.60	164.93	7.67	--	--	--	--	--	--	--	--	--	--	
08/31/94	172.60	164.81	7.79	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	1.6	<0.5	320	
11/11/94	172.60	165.73	6.87	SAMPLED SEMI-ANNUALLY				--	--	--	--	--	--	--
02/01/95	172.60	167.03	5.57	89	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
05/18/95	172.60	165.79	6.81	--	--	--	--	--	--	--	--	--	--	

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-4930  
3369 Castro Valley Boulevard  
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	1,2-DCE (ppb)	TCE (ppb)	DCFM (ppb)	PCE (ppb)	
<b>MW-3 (cont)</b>														
08/22/95	172.60	165.35	7.25	190	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
11/01/95	172.60	165.70	6.90	--	--	--	--	--	--	--	--	--	--	
01/26/96	172.60	167.35	5.25	160	<2.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	
05/08/96	172.60	165.55	7.05	--	--	--	--	--	--	--	--	--	--	
10/03/96	170.47	165.29	5.18	150	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	
02/04/97	170.47	166.27	4.20	88	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	
04/30/97	170.47	165.37	5.10	--	--	--	--	--	--	--	--	--	--	
07/22/97	170.47	165.15	5.32	180	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	
11/03/97	170.47	165.12	5.35	--	--	--	--	--	--	--	--	--	--	
02/11/98	170.47	167.47	3.00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	
05/08/98	170.47	165.96	4.51	--	--	--	--	--	--	--	--	--	--	
08/07/98	170.47	165.26	5.21	110	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	
11/05/98	170.47	165.35	5.12	--	--	--	--	--	--	--	--	--	--	
03/02/99	170.47	166.19	4.28	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--	
05/17/99	170.47	165.82	4.65	--	--	--	--	--	--	--	--	--	--	
08/24/99	170.47	164.76	5.71	352	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	
11/19/99	170.47	164.64	5.83	--	--	--	--	--	--	--	--	--	--	
02/03/00	170.47	165.55	4.92	140	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	
05/03/00	170.47	165.54	4.93	SAMPLED SEMI-ANNUALLY				--	--	--	--	--	--	--
07/28/00	170.47	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--	--	--	--	--
11/13/00	170.47	165.29	5.18	--	--	--	--	--	--	--	--	--	--	
02/15/01	170.47	166.10	4.37	310 <sup>4</sup>	<0.500	<0.500	<0.500	<0.500	<2.50	--	--	--	--	
05/31/01	170.47	165.62	4.85	230 <sup>2</sup>	<1.0	<1.0	<1.0	<1.0	5.2/2.4 <sup>5</sup>	--	--	--	--	
08/30/01	170.47	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--	--	--	--	--
11/29/01	170.47	166.12	4.35	SAMPLED SEMI-ANNUALLY				--	--	--	--	--	--	--
02/05/02	170.47	165.63	4.84	360	<0.50	<0.50	<0.50	<1.5	2.8	--	--	--	--	
05/16/02 <sup>9</sup>	170.47	165.37	5.10	340	<0.50	<0.50	<0.50	<1.5	3.4	--	37	<2	990	
08/15/02	170.47	164.91	5.56	370	<0.50	<0.50	<0.50	<1.5	3.1	--	--	--	--	
11/05/02	170.47	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--	--	--	--	--
02/05/03	170.47	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--	--	--	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-4930  
3369 Castro Valley Boulevard  
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	1,2-DCE (ppb)	TCE (ppb)	DCFM (ppb)	PCE (ppb)
MW-4													
10/29/93	170.68	165.18	5.50	640	6.7	3.3	0.6	6.7	--	--	--	--	--
02/25/94	170.68	165.86	4.82	450	20	0.8	12	6.0	--	--	--	--	--
04/04/94	170.68	165.23	5.45	--	--	--	--	--	--	--	--	--	--
04/29/94	170.68	165.45	5.23	--	--	--	--	--	--	--	--	--	--
06/13/94	170.68	165.14	5.54	1,700	130	1.4	100	11	--	22	59	13	180
06/30/94	170.68	165.13	5.55	--	--	--	--	--	--	--	--	--	--
07/28/94	170.68	165.06	5.62	--	--	--	--	--	--	--	--	--	--
08/31/94	170.68	165.00	5.68	800	17	3.5	9.3	4.4	--	25	53	22	510
11/11/94	170.68	165.46	5.22	500	26	<0.5	30	4.3	--	--	--	--	--
02/01/95	170.68	165.12	5.56	1,600	180	<2.0	31	42	--	--	--	--	--
05/18/95	170.68	165.70	4.98	1,300	130	<2.0	140	5.5	--	--	--	--	--
08/22/95	170.68	165.35	5.33	970	50	<1.2	75	<1.2	--	--	--	--	--
11/01/95	170.68	165.28	5.40	320	3.3	<0.5	4.1	<0.5	27	--	--	--	--
01/26/96	170.68	166.40	4.28	1,400	65	<2.5	98	71	100	--	--	--	--
05/08/96	170.68	165.33	5.35	610	28	1.2	58	4.4	70	--	--	--	--
10/03/96	171.70	165.48	6.22	210	4.2	<0.5	<0.5	<0.5	12	--	--	--	--
02/04/97	171.70	166.57	5.13	60	4.4	<0.5	<0.5	<0.5	--	--	--	--	--
04/30/97	171.70	165.60	6.10	870	49	<2.0	100	<2.0	18	--	--	--	--
07/22/97	171.70	165.36	6.34	420	16	<0.5	23	<0.5	9.4	--	--	--	--
11/03/97	171.70	165.35	6.35	370	8.1	0.54	10	7.6	30	--	--	--	--
02/11/98	171.70	167.16	4.54	<50	2.0	0.58	<0.5	<0.5	<2.5	--	--	--	--
05/08/98	171.70	166.25	5.45	230	13	2.3	37	4.3	15	--	--	--	--
08/07/98	171.70	166.57	5.13	85	4.8	<0.5	11	0.87	57	--	--	--	--
11/05/98	171.70	165.31	6.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
03/02/99	171.70	166.65	5.05	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
05/17/99	171.70	166.40	5.30	<50	0.9	<0.5	0.843	<0.5	<5.0	--	--	--	--
08/24/99	171.70	164.35	7.35	<50	0.893	<0.5	<0.5	<0.5	<2.5	--	--	--	--
11/19/99	171.70	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
02/03/00	171.70	166.35	5.35	<50	<0.5	<0.5	<0.5	<0.5	2.9	--	--	--	--
05/03/00	171.70	165.72	5.98	110 <sup>2</sup>	1.1	<0.50	0.51	<0.50	12	--	--	--	--
07/28/00	171.70	UNABLE TO LOCATE - DUE TO LANDSCAPING				--	--	--	--	--	--	--	--
11/13/00	171.70	UNABLE TO LOCATE - DUE TO LANDSCAPING				--	--	--	--	--	--	--	--
02/15/01	171.70	UNABLE TO LOCATE - DUE TO LANDSCAPING				--	--	--	--	--	--	--	--



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-4930  
3369 Castro Valley Boulevard  
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	1,2-DCE (ppb)	TCE (ppb)	DCFM (ppb)	PCE (ppb)
<b>MW-4 (cont)</b>													
05/31/01	171.70	166.62	5.08	<50	0.63	<0.50	<0.50	<0.50	<2.5/<2.0 <sup>5</sup>	--	--	--	--
08/30/01 <sup>6</sup>	171.70	165.30	6.40	560	3.6	<0.50	21	1.3	--/<5.0 <sup>5</sup>	--	--	--	--
11/29/01	171.70	166.05	5.65	210	1.5	<0.50	6.6	<1.5	<5.0	--	--	--	--
02/05/02	171.70	165.83	5.87	71	<0.50	<0.50	1.0	<1.5	<2.5	--	--	--	--
05/16/02 <sup>10</sup>	171.70	165.49	6.21	160	<0.50	<0.50	<0.50	<1.5	4.9	--	46	<2	420
08/15/02	171.70	165.49	6.21	150	2.8	<0.50	2.5	<1.5	2.5	--	--	--	--
11/05/02	171.70	165.24	6.46	290	<0.50	<0.50	<0.50	<1.5	6.5	--	--	--	--
02/05/03	171.70	165.64	6.06	68	1.2	<0.50	<0.50	<1.5	<2.5	--	--	--	--
<b>TRIP BLANK</b>													
02/25/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
06/13/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
08/31/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
11/11/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
02/01/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
05/18/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
08/22/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
11/01/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/26/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
05/08/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
10/03/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
02/04/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
04/30/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
07/22/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
02/11/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
05/08/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
08/07/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
11/05/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
03/02/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
05/17/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
08/24/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
11/19/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-4930  
3369 Castro Valley Boulevard  
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	1,2-DCE (ppb)	TCE (ppb)	DCFM (ppb)	PCE (ppb)
<b>TRIP BLANK (cont)</b>													
02/03/00	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
05/03/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
07/28/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
11/13/00	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	--	--	--
02/15/01	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	--	--	--
05/31/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
08/30/01 <sup>6</sup>	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	--/ <5.0 <sup>5</sup>	--	--	--	--
<b>QA</b>													
11/29/01	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--	--	--
02/05/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--	--	--
05/16/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--	--	--
08/15/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--	--	--
11/05/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--	--	--
02/05/03	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--	--	--	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Chevron Service Station #9-4930  
3369 Castro Valley Boulevard  
Castro Valley, California

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**EXPLANATIONS:**

Groundwater monitoring data and laboratory analytical results prior to May 3, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing

(ft.) = Feet

GWE = Groundwater Elevation

(msl) = Mean sea level

DTW = Depth to Water

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

1,2-DCE = 1,2-Dichloroethene

TCE = Trichloroethene

DCFM = Dichlorodifluoromethane

PCE = Tetrachloroethene

(ppb) = Parts per billion

-- = Not Measured/Not Analyzed

QA = Quality Assurance/Trip Blank

<sup>1</sup> No value for MTBE could be determined; see lab report.

<sup>2</sup> Laboratory report indicates discrete peaks.

<sup>3</sup> Laboratory report indicates unidentified hydrocarbons C6-C12.

<sup>4</sup> Laboratory report indicates single analyte peak(s) are present in the requested fuel quantitation range. Fuel hydrocarbon is not present.

<sup>5</sup> MTBE by EPA Method 8260.

<sup>6</sup> TPH-G and BTEX by EPA Method 8260.

<sup>7</sup> Analyses for trans-1,2-DCE was detected at 3 ppb, and cis-1,2-DCE was detected at 9 ppb.

<sup>8</sup> Analyses for trans-1,2-DCE was <1 ppb, and cis-1,2-DCE was detected at 10 ppb.

<sup>9</sup> Analyses for trans-1,2-DCE was <1 ppb, and cis-1,2-DCE was detected at 8 ppb.

<sup>10</sup> Analyses for trans-1,2-DCE was <1 ppb, and cis-1,2-DCE was detected at 28 ppb.

**Table 2**  
**Groundwater Analytical Results - Oxygenate Compounds**  
 Former Chevron Service Station #9-4930  
 3369 Castro Valley Boulevard  
 Castro Valley, California

WELL ID	DATE	METHANOL (ppm)	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-1	05/31/01	<1.000	<500	<20	2.1	<2.0	<2.0	<2.0	<2.0	<2.0
	08/30/01	--	--	--	<5.0	--	--	--	--	--
MW-2	05/31/01	<1.000	<500	<20	26	<2.0	<2.0	<2.0	<2.0	<2.0
	08/30/01	--	--	--	27	--	--	--	--	--
MW-3	05/31/01	<1.000	<500	<20	2.4	<2.0	<2.0	<2.0	<2.0	<2.0
	08/30/01	INACCESSIBLE - TRUCK PARKED OVER WELL			--	--	--	--	--	--
MW-4	05/31/01	<1.000	<500	<20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	08/30/01	--	--	--	<5.0	--	--	--	--	--
TRIP BLANK	08/30/01	--	--	--	<5.0	--	--	--	--	--

**EXPLANATIONS:**

TBA = Tertiary butyl alcohol  
 MTBE = Methyl tertiary butyl ether  
 DIPE = Di-isopropyl ether  
 ETBE = Ethyl tertiary butyl ether  
 TAME = Tertiary amyl methyl ether  
 1,2-DCA = 1,2-Dichloroethane  
 EDB = Ethylene dibromide  
 (ppm) = Parts per million  
 (ppb) = Parts per billion  
 -- = Not Analyzed

**ANALYTICAL METHODS:**

EPA Method 8015 (Modified) for Methanol  
 EPA Method 8260 for Oxygenate Compounds

## STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Products Company, the purge water and decontamination water generated during sampling activities is transported by IWM to McKittrick Waste Management located in McKittrick, California.



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-4930 Job Number: 386509  
 Site Address: 3369 Castro Valley Blvd. Event Date: 2/5/03 (inclusive)  
 City: Castro Valley, CA Sampler: G.R.

Well ID: MW-1 Date Monitored: 2/5/03 Well Condition: OK

Well Diameter: 2 in.  
 Total Depth: 18.29 ft.  
 Depth to Water: 7.02 ft.  
11.27

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

$xVF \ 0.17 = 1.92 \times 3 \text{ (case volume)} = \text{Estimated Purge Volume: } 5.5 \text{ gal.}$

### Purge Equipment:

Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: 0 ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 0950 Weather Conditions: Clear  
 Sample Time/Date: 1018 2/5/03 Water Color: light Brown Odor: NO  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1000</u>	<u>2</u>	<u>7.30</u>	<u>738</u>	<u>19.9</u>	_____	_____
<u>1003</u>	<u>4</u>	<u>7.20</u>	<u>729</u>	<u>19.7</u>	_____	_____
<u>1005</u>	<u>5.6</u>	<u>7.18</u>	<u>724</u>	<u>19.7</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8021)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-4930 Job Number: 386509  
 Site Address: 3369 Castro Valley Blvd. Event Date: 2/5/03 (inclusive)  
 City: Castro Valley, CA Sampler: G.R.

Well ID: MW-2 Date Monitored: 2/5/03 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 16.61 ft.  
 Depth to Water: 5.80 ft.  
10.81 xVF 0.17 = 1.84 x3 (case volume) = Estimated Purge Volume: 5.5 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

### Purge Equipment:

Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Bailed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	<u>0</u> ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ gal
Amt Removed from Well:	_____ gal
Product Transferred to:	_____

Start Time (purge): 11:10 Weather Conditions: Clear  
 Sample Time/Date: 11:45 2/5/03 Water Color: light brown Odor: NO  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>11:18</u>	<u>2</u>	<u>6.74</u>	<u>881</u>	<u>22.0</u>	_____	_____
<u>11:22</u>	<u>4</u>	<u>6.70</u>	<u>861</u>	<u>21.9</u>	_____	_____
<u>11:25</u>	<u>5.5</u>	<u>6.61</u>	<u>867</u>	<u>21.9</u>	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8021)</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

COMMENTS: \_\_\_\_\_

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-4930  
 Site Address: 3369 Castro Valley Blvd.  
 City: Castro Valley, CA

Job Number: 386509  
 Event Date: 2/5/03 (inclusive)  
 Sampler: G.R.

Well ID: MW-3  
 Well Diameter: 2 in.  
 Total Depth: 17.51 ft.  
 Depth to Water: \_\_\_\_\_ ft.

Date Monitored: \_\_\_\_\_ Well Condition: \_\_\_\_\_

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

~~\_\_\_\_\_ x VF = \_\_\_\_\_ x3 (case volume) = Estimated Purge Volume: \_\_\_\_\_ gal.~~

### Purge Equipment:

~~Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_~~

### Sampling Equipment:

~~Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_~~

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft.  
 Depth to Water: \_\_\_\_\_ ft.  
 Hydrocarbon Thickness: \_\_\_\_\_ ft.  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

~~Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: \_\_\_\_\_  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.~~

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8021)

COMMENTS: U.T.A. - Car parked over well  
Car is very dirty - looks like it's been here  
along time.

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_





# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-4930 Job Number: 386509  
 Site Address: 3369 Castro Valley Blvd. Event Date: 2/5/03 (inclusive)  
 City: Castro Valley, CA Sampler: G. A.

Well ID: MW-4 Date Monitored: 2/5/03 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 17.81 ft.  
 Depth to Water: 6.06 ft.  
11.75 x VF 0.17 = 1.99 x3 (case volume) = Estimated Purge Volume: 6 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

**Purge Equipment:**  
 Disposable Bailer   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: 0 ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1030 Weather Conditions: Clear  
 Sample Time/Date: 1058 / 2/5/03 Water Color: Clear Odor: NO  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
<u>1035</u>	<u>2</u>	<u>6.68</u>	<u>584</u>	<u>70.1</u>		
<u>1039</u>	<u>4</u>	<u>6.59</u>	<u>578</u>	<u>70.0</u>		
<u>1043</u>	<u>6</u>	<u>6.54</u>	<u>576</u>	<u>70.0</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>3 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8021)</u>

COMMENTS: Contents of well vault extremely Nasty. Runoff from garbage dumpster area of restaurant. - Plug wasn't seal tight so I replaced it

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug:  Size: 2"

# Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only  
 Acct. #: 10904 Sample #: 3991970-3 SCR#: \_\_\_\_\_

020703-005

gr#840773

Facility #: 9-4930 Job #386509 Global ID#T0600100137  
 Site Address: 3369 CASTRO VALLEY BLVD., CASTRO VALLEY, CA  
 Chevron PM: KS Lead Consultant: CAMBRIA  
 Consultant/Office: G-R, Inc., 6747 Sierra Court, Dublin, Ca 94568  
 Consultant Prj. Mgr.: Deanna L. Harding (Deanna@grinc.com)  
 Consultant Phone #: 925-551-7555 Fax #: 925-551-7899  
 Sampler: G. Lopez  
 Service Order #: \_\_\_\_\_  Non SAR: \_\_\_\_\_

Matrix		Analyses Requested												
Soil	Water	Oil	Air	Preservation Codes										
Potable	NPDES	Total Number of Containers												
<input type="checkbox"/>	<input type="checkbox"/>	BTEX + MTBE	8260	8021	TPH 8015 MOD	GRO	TPH 8015 MOD DRO	<input type="checkbox"/>	Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420	<input type="checkbox"/>	7421
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**Preservative Codes**

H = HCl      T = Thiosulfate  
 N = HNO<sub>3</sub>    B = NaOH  
 S = H<sub>2</sub>SO<sub>4</sub>   O = Other

J value reporting needed  
 Must meet lowest detection limits possible for 8260 compounds

**8021 MTBE Confirmation**

Confirm highest hit by 8260  
 Confirm all hits by 8260  
 Run \_\_\_ oxy s on highest hit  
 Run \_\_\_ oxy s on all hits

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE	8260	8021	TPH 8015 MOD	GRO	TPH 8015 MOD DRO	<input type="checkbox"/>	Silica Gel Cleanup	8260 full scan	Oxygenates	Lead 7420	<input type="checkbox"/>	7421
QA	2-5-03	—	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
MW-1	↓	1018	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
MW-2	↓	1145	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
MW-4	↓	1058	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**Comments / Remarks**

**Turnaround Time Requested (TAT) (please circle)**

STD. TAT      72 hour      48 hour  
 24 hour      4 day      5 day

**Data Package Options (please circle if required)**

QC Summary      Type I — Full  
 Type VI (Raw Data)       Coelt Deliverable not needed  
 WIP (RWQCB)  
 Disk

Relinquished by: <u>[Signature]</u>	Date: <u>2-5-03</u>	Time: <u>1245</u>	Received by: <u>D. Vanna</u>	Date: <u>2/7/03</u>	Time: <u>1300</u>
Relinquished by: <u>[Signature]</u>	Date: <u>2/7/03</u>	Time: <u>1300</u>	Received by: <u>Bernardo Amaya</u>	Date: <u>2/7/03</u>	Time: <u>1315</u>
Relinquished by: <u>Bernardo Amaya</u>	Date: <u>2/7/03</u>	Time: <u>1530</u>	Received by: <u>Airborne</u>	Date: <u>2/7/03</u>	Time: _____
Relinquished by Commercial Carrier: UPS      FedEx <u>Other</u> <u>Airborne</u>	Temperature Upon Receipt: <u>7.5°</u>		Received by: <u>[Signature]</u>	Date: <u>2/10/03</u>	Time: <u>1000</u>
Custody Seals Intact? <u>Yes</u> No					



## ANALYTICAL RESULTS

Prepared for: *Cambridge Environmental*

ChevronTexaco  
6001 Bollinger Canyon Rd L4310 *FEB 25 2003*

San Ramon CA 94583  
925-842-8582 *LINK-RYAN INC*

Prepared by: *LABORATORY CONTROL*

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

## SAMPLE GROUP

The sample group for this submittal is 840773. Samples arrived at the laboratory on Saturday, February 08, 2003. The PO# for this group is 99011184 and the release number is STREICH.

<u>Client Description</u>		<u>Lancaster Labs Number</u>
QA-T-030205	NA Water	3991970
MW-1-W-030205	Grab Water	3991971
MW-2-W-030205	Grab Water	3991972
MW-4-W-030205	Grab Water	3991973

1 COPY TO Cambria C/O Gettler- Ryan

Attn: Deanna L. Harding

Questions? Contact your Client Services Representative  
Teresa L Cunningham at (717) 656-2300.

Respectfully Submitted,

*Victoria M Martell*  
Victoria M. Martell  
Chemist





Lancaster Laboratories Sample No. WW 3991970

Collected: 02/05/2003 00:00

Account Number: 10904

Submitted: 02/08/2003 10:00  
 Reported: 02/20/2003 at 17:39  
 Discard: 03/23/2003

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310

QA-T-030205 NA Water  
 Facility# 94930 Job# 386509 GRD  
 3369 CASTRO VALLEY BLVD T0600100137 QA

San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	0.50	ug/l	1
02164	Toluene	108-88-3	N.D.	0.50	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	02/12/2003 15:40	Melissa D Mann	1
02159	BTEX, MTBE	SW-846 8021B	1	02/12/2003 15:40	Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	02/12/2003 15:40	Melissa D Mann	n.a.





Lancaster Laboratories Sample No. WW 3991971

Collected: 02/05/2003 10:18 by GR

Account Number: 10904

Submitted: 02/08/2003 10:00

ChevronTexaco

Reported: 02/20/2003 at 17:39

6001 Bollinger Canyon Rd L4310

Discard: 03/23/2003

MW-1-W-030205

Grab

Water

San Ramon CA 94583

Facility# 94930

Job# 386509

GRD

3369 CASTRO VALLEY BLVD T0600100137 MW-1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	120.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
02159	BTEX, MTBE					
02161	Benzene	71-43-2	1.5	0.50	ug/l	1
02164	Toluene	108-88-3	N.D.	0.50	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	10.	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						

Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for MTBE. The presence or concentration of this compound cannot be determined due to the presence of this interferent.

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline	1	02/12/2003 16:13	Melissa D Mann	1
02159	BTEX, MTBE	SW-846 8021B	1	02/12/2003 16:13	Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	02/12/2003 16:13	Melissa D Mann	n.a.





Lancaster Laboratories Sample No. **WW 3991972**

Collected: 02/05/2003 11:45 by GR

Account Number: 10904

Submitted: 02/08/2003 10:00  
 Reported: 02/20/2003 at 17:40  
 Discard: 03/23/2003

ChevronTexaco  
 6001 Bollinger Canyon Rd L4310

MW-2-W-030205 Grab Water  
 Facility# 94930 Job# 386509 GRD  
 3369 CASTRO VALLEY BLVD T0600100137 MW-2

San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	250.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
02159	BTEX, MTBE					
02161	Benzene	71-43-2	3.1	0.50	ug/l	1
02164	Toluene	108-88-3	N.D.	0.50	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
01729	TPH-GRO - Waters	N. CA LUFT Gasoline	1	02/12/2003 16:46	Melissa D Mann	1
02159	BTEX, MTBE	SW-846 8021B	1	02/12/2003 16:46	Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	02/12/2003 16:46	Melissa D Mann	n.a.



# Analysis Report



Lancaster Laboratories Sample No. WW 3991973

Collected: 02/05/2003 10:58 by GR

Account Number: 10904

Submitted: 02/08/2003 10:00  
Reported: 02/20/2003 at 17:40  
Discard: 03/23/2003

ChevronTexaco  
6001 Bollinger Canyon Rd L4310

MW-4-W-030205 Grab Water  
Facility# 94930 Job# 386509 GRD  
3369 CASTRO VALLEY BLVD T0600100137 MW-4

San Ramon CA 94583

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	68.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
02159	BTEX, MTBE					
02161	Benzene	71-43-2	1.2	0.50	ug/l	1
02164	Toluene	108-88-3	N.D.	0.50	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						

State of California Lab Certification No. 2116

## Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	02/12/2003 17:18	Melissa D Mann	1
02159	BTEX, MTBE	SW-846 8021B	1	02/12/2003 17:18	Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	02/12/2003 17:18	Melissa D Mann	n.a.





## Quality Control Summary

Client Name: ChevronTexaco  
 Reported: 02/20/03 at 05:40 PM

Group Number: 840773

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 03043A51A	Sample number(s): 3991970-3991973							
TPH-GRO - Waters	N.D.	50.	ug/l	103	104	70-130	1	30
Benzene	N.D.	.5	ug/l	104	105	80-118	1	30
Toluene	N.D.	.5	ug/l	100	100	82-119	0	30
Ethylbenzene	N.D.	.5	ug/l	97	97	81-119	0	30
Total Xylenes	N.D.	1.5	ug/l	99	99	82-120	0	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	100	104	79-127	4	30

### Sample Matrix Quality Control

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>BKG MAX</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 03043A51A	Sample number(s): 3991970-3991973							
TPH-GRO - Waters	101		70-130					
Benzene	108		67-136					
Toluene	103		78-129					
Ethylbenzene	101		75-133					
Total Xylenes	102		86-132					
Methyl tert-Butyl Ether	101		66-136					

### Surrogate Quality Control

Analysis Name: BTEX, MTBE

Batch number: 03043A51A

	Trifluorotoluene-F	Trifluorotoluene-P
3991970	92	90
3991971	91	92
3991972	92	94
3991973	92	93
Blank	98	90
LCS	99	91
LCSD	96	92
MS	96	91
Limits:	57-146	66-136

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

